

## MEMORANDUM

Date September 6, 1967ANACONDA ALUMINUM COMPANY  
COLUMBIA FALLS, MONTANASUBJECT: Ambient Air Sampling Program

REFERENCE: \_\_\_\_\_

FROM: A. W. HookTO: C. E. Taylor

The scope of this memorandum is to outline the basic ambient air sampling analysis and reporting program for the Columbia Falls plant.

PURPOSE

The objective of the program is to establish minimum and maximum values for fluorides in ambient air, with due consideration of meteorological and topographical factors in the plant area.

SAMPLE LOCATIONS

Sample locations will be selected on the perimeter of the plant property. Each will be selected on the basis of the prevailing wind and velocity. The locations will coincide with vegetation sampling points.

NUMBER OF SAMPLE LOCATIONS

A minimum of six locations will be sampled.

FREQUENCY

Samples will be taken on a minimum basis of twice monthly to start the program. Twenty-four-hour samples, i.e., continuous sampling, will be taken over the twelve month period. Additional samples will be taken during the growing season, as time permits.

EQUIPMENT

Additional equipment will be required. This includes vacuum pumps, meters, impingers and sample boxes.

Studies presently being made on the use of different types of equipment will indicate, it is hoped, new approaches to the field sampling problem. Until such studies are complete, gas and electrically operated vacuum pumps will be used.

The laboratory pickup has been overhauled, and a cab has been purchased as a truck box cover to protect equipment from the weather, and general observation of the public.